RECIPROCATING COMPRESSOR WITH ENLARGED VALVE SEAT AREA

ABSTRACT OF THE DISCLOSURE

A reciprocating compressor is provided with a discharge valve having an area inward of a valve seat which is greater than the area of the discharge port. The valve seat also has a distinct shape compared to the valve port in preferred embodiments. The increased area within the valve seat results in an increased force tending to open the valve from a compressed fluid. On the other hand, since the valve port remains relatively small, the flow losses are not significantly increased.

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